

NOV 07 2002

TECH CENTER 1600/2900



160C

11-12-02

RAW SEQUENCE LISTING

DATE: 10/31/2002

PATENT APPLICATION: US/09/765,555A

TIME: 17:33:34

Input Set : D:\27801-20014.txt

Output Set: N:\CRF4\10312002\I765555A.raw

ENTERED

3 <110> APPLICANT: The Scripps Research Institute
4 Barbas, Carlos
5 Stege, Justin
6 Guan, Xueni
7 Dalmia, Bipin
9 <120> TITLE OF INVENTION: Methods and compositions to modulate
10 expression in plants
12 <130> FILE REFERENCE: 27801-20014.20
14 <140> CURRENT APPLICATION NUMBER: 09/765,555A
15 <141> CURRENT FILING DATE: 2001-01-19
17 <150> PRIOR APPLICATION NUMBER: 09/620,897
18 <151> PRIOR FILING DATE: 2000-07-21
20 <150> PRIOR APPLICATION NUMBER: US 60/177,468
21 <151> PRIOR FILING DATE: 2000-01-21
23 <160> NUMBER OF SEQ ID NOS: 75
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28 <211> LENGTH: 532
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
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33 <223> OTHER INFORMATION: Promoter CsVMV
35 <400> SEQUENCE: 1
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38 atatgcaacc tatgttcaaa aatgaagaat gtacagatac aagatcctat actgccagaa 180
39 tacgaagaag aatacgtaga aattgaaaaa gaagaaccag gcgaagaaaa gaatcttgaa 240
40 gacgtaagca ctgacgacaa caatgaaaag aagaagataa ggtcgggtgat tgtgaaagag 300
41 acatagagga cacatgtaag gtggaaaatg taagggcgga aagtaacctt atcacaaagg 360
42 aatcttatcc cccactactt atccttttat atttttccgt gtcatttttg cccttgagtt 420
43 ttcctatata aggaaccaag ttcggcattt gtgaaaacaa gaaaaaattt ggtgtaagct 480
44 attttctttg aagtactgag gatacaactt cagagaaatt tgtaagtttg ta 532
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 18
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Zinc finger protein 2C7 binding site
54 <400> SEQUENCE: 2
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57 <210> SEQ ID NO: 3
58 <211> LENGTH: 51
59 <212> TYPE: DNA

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63 <223> OTHER INFORMATION: Promoter pc7rbTATA
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69 <211> LENGTH: 3121
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71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: pND3008 coding region
76 <400> SEQUENCE: 4
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78 aaattaccac atattttttt tgtcacactt gtttgaagtg cagtttatct atctttatac 120
79 atatatttaa actttactct acgaataata taatctatag tactacaata atatcagtg 180
80 tttagagaat catataaatg aacagttaga catgggtctaa aggacaattg agtattttga 240
81 caacaggact ctacagtttt atcttttttag tgtgcatgtg ttctcctttt tttttgcaa 300
82 tagcttcacc tatataatac ttcatocatt ttatttagtac atccatttag ggttttaggt 360
83 taatggtttt tatagactaa ttttttttagt acatctatct tattctatct tagcctctaa 420
84 attaagaaaa ctaaaactct attttagttt ttttatttta taatttagat ataaaataga 480
85 ataaaataaa gtgactaaaa attaaacaaa taccctttta gaaattaaaa aaactaagga 540
86 aacatttttc ttgttttcgag tagataatgc cagcctgtta aacgccgtcg acgagtcctaa 600
87 cggacaccaa ccagcgaacc agcagcgtcg cgtcgggcca agcgaagcag acggcacggc 660
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89 gctgtcggca tccagaaatt gcgtggcgga gcggcagacg tgagccggca cggcagggc 780
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107 agtacctatc tattataata aacaagtatg ttttataatt attttgatct tgatatactt 1860
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109 ttatttgctt ggtactgttt cttttgtcga tgctcaccct gttgttttgt gttacttctg 1980
110 caggctgact ctagaggatc tatggcccag gcggccctcg agctccccta tgcttgcct 2040
111 gtcgagtcct gcgacgcgc cttttctaag tcggctgacg tgaagcgcca tatcgcac 2100
112 cacacaggcc agaagccctt ccagtgtcga atatgcacgc gtaacttcag tcgtagtgc 2160
113 caccttacca cccacatccg caccacacac ggcgagaagc cttttgcctg tgacatttgt 2220

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115	aagccctatg	cttgccctgt	cgagtcctgc	gacgcccgt	tttctaagtc	ggctgatctg	2340
116	aagcgccata	tccgcatcca	cacaggccag	aagcccttcc	agtgtcgaat	atgcatgcgt	2400
117	aacttcagtc	gtagtgaaca	ccttaccacc	cacatccgca	cccacacagg	cgagaagcct	2460
118	tttgccctgtg	acatttgttg	gaggaagtgt	gccaggagt	atgaacgcaa	gaggcatacc	2520
119	aaaatccatt	taagacagaa	ggactctaga	actagtggcc	aggccggcca	ggctagcccg	2580
120	aaaaagaaac	gcaaagtgtg	gcgcgccgac	gcgctggacg	atttcgatct	cgacatgctg	2640
121	ggttctgatg	ccctcgatga	ctttgacctg	gatagtgttg	gaagcgacgc	attggatgac	2700
122	tttgatcttg	acatgctcgg	ctccgatgct	ctggacgatt	tcgatctcga	tatgttaatt	2760
123	aactaccogt	acgacgttcc	ggactacgct	tcttgagaat	tcgcggccgc	gggcccgagc	2820
124	ctagggagga	gctcaagatc	ccccgaattt	ccccgatcgt	tcaaacattt	ggcaataaag	2880
125	tttcttaaga	ttgaatcctg	ttgccggctc	tgcatgatt	atcatctaatt	ttctgttgaa	2940
126	ttacgttaag	catgtaataa	ttaacatgta	atgcatgacg	ttatttatga	gatgggtttt	3000
127	tatgattaga	gtcccgaat	tatacattta	atacgcgata	gaaaacaaaa	tatagcgcgc	3060
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142	atataattta	actttactct	acgaataata	taattctatg	tactacaata	atatcagtgt	180
143	tttagagaa	catataaatg	aacagttaga	catggtctaa	aggacaattg	agtattttga	240
144	caacaggact	ctacagtttt	atctttttag	tgtgcatgtg	ttctcctttt	tttttgcaaa	300
145	tagcttcacc	tatataatac	ttcatccatt	ttattagtac	atccatttag	ggtttaggg	360
146	taatggtttt	tatagactaa	tttttttagt	acatctattt	tattotattt	tagcctctaa	420
147	attaagaaaa	ctaaaactct	attttagttt	ttttatttaa	taatttagat	ataaaataga	480
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161	ttgccctttt	cctttatttc	aatatatgcc	gtgcacttgt	ttgtcgggtc	atcttttcac	1320
162	gctttttttt	gtcttggttg	tgatgatgtg	gtctgggttg	gcggctcgtc	tagatcggag	1380
163	tagaattctg	tttcaaacta	cctgggtgat	ttattaattt	tggatctgta	tgtgtgtgcc	1440
164	atacatattc	atagttacga	attgaagatg	atggatggaa	atatcgatct	aggataggta	1500
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168 agttacgagt ttaagatgga tggaaatatc gatctaggat aggtatacat gttgatgtgg 1740
169 gttttactga tgcataatac tgatggcata tgcagcatct attcatatgc tctaaccctg 1800
170 agtacctatc tattataata aacaagtatg ttttataatt attttgatct tgatatactt 1860
171 ggatgatggc atatgcagca gctatatgtg gattttttta gccctgcctt catacgtat 1920
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173 caggtcgact cttagggatc cactagttag ccatgggcta gcatggccgc tgcctgctgc 2040
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175 gagcacggct acgccagcat gctgccatat ccgaaaaaga aacgcaagggt ggcccaggcg 2160
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178 tgcattcgta acttcagtcg tagtgaccac cttaccaccc acatccgcac ccacacaggc 2340
179 gagaagcctt ttgctgtga catttggtgg aggaagtttg ccaggagtga tgaacgcaag 2400
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181 cgccgctttt ctaagtcggc tgatctgaag cgccatatcc gcatccacac aggccagaag 2520
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183 atccgcaccc acacaggcga gaagcctttt gcctgtgaca tttgtgggag gaagtttgcc 2640
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186 accgagctcg gatccccga atttccccga tcgttcaaac atttggcaat aaagtttctt 2820
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189 tagagtcccg caattataca ttttaatacg gatagaaaac aaaatatagc gcgcaacta 3000
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199 <223> OTHER INFORMATION: 6X2C7 binding site

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204 tgggcgaaca agcgtgggcg gcgtgggcga ctagt 156

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207 <211> LENGTH: 18

208 <212> TYPE: DNA

209 <213> ORGANISM: Artificial Sequence

211 <220> FEATURE:

212 <223> OTHER INFORMATION: ZFPap3

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217 <210> SEQ ID NO: 8

218 <211> LENGTH: 21

219 <212> TYPE: DNA

220 <213> ORGANISM: Artificial Sequence

222 <220> FEATURE:

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223 <223> OTHER INFORMATION: ZFP from -85 to -65
225 <400> SEQUENCE: 8
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234 <223> OTHER INFORMATION: ZFPm1 from -68 to -85
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237 tgagaggagg aaggaggc 18
239 <210> SEQ ID NO: 10
240 <211> LENGTH: 18
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: ZFPm2 from -65 to -82
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248 gagtgagagg aggaagga 18
250 <210> SEQ ID NO: 11
251 <211> LENGTH: 24
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: ZFP from 294 to 317
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259 gccaaactact acggctccct cacc 24
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262 <211> LENGTH: 18
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: ZFPm3 from 311 to 294
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272 <210> SEQ ID NO: 13
273 <211> LENGTH: 18
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
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284 <211> LENGTH: 3300
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Partial sequence of pMal-m1 and zinc finger

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/765,555A

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